

Rotational Stabilization of Disc Drives During Servo Track Writing Operations

Abstract of the Disclosure

5 A data storage device stabilization mechanism for a servo track writing (STW) nest is disclosed. The stabilization mechanism comprising a baseplate, at least two fixed restraints on the baseplate adapted to receive and position a data storage device on the baseplate, and at least two clamps on the baseplate. The clamps are operable to move between a first position and a second position. In the first position the clamps engage a data storage device positioned on the baseplate by the fixed restraints and apply a restraining force on the data storage device in a
10 direction perpendicular to the disc rotation axis to dampen rotational movement of the data storage device relative to the baseplate. In the second position, the clamps do not engage the data storage device positioned on the baseplate allowing a data storage device to be positioned or removed easily.